Gain advanced Linux computing with Novell and AMD64

AMD AND NOVELL DELIVER COMPREHENSIVE FUNCTIONALITY THAT MAKES THE MOST OF WHAT OPEN SOURCE HAS TO OFFER

A COMPREHENSIVE LINUX SOLUTION

Linux® is about more than an operating system. It's about the ecosystem of applications, databases, and technical expertise that makes your business successful. With the combination of AMD Opteron™ processors and SUSE® Linux Enterprise Server from Novell,® you get an exceptional Linux platform engineered for secure enterprise computing.

SUSE Linux Enterprise Server provides a robust, scalable, and flexible infrastructure that takes advantage of the most advanced features of AMD64 technology. In fact, SUSE Linux was one of the first Linux operating systems to support AMD64. Built for reliability, this advanced solution offers comprehensive functionality to power today's networks and meet even the most challenging user demands.

OPTIMIZED PERFORMANCE AND SCALABILITY

Here are just some of the capabilities you get with SUSE Linux Enterprise Server:

» A scalable, high-performance platform built on the powerful new Linux 2.6 kernel

» Guaranteed data privacy with the highest level of security and operations certification in the Linux market— Common Criteria Evaluation Assurance Level (EAL) 4+

» Lower management costs with an array of unique management features that simplify deployment, configuration, and maintenance

And AMD64 technology helps make it possible. The AMD Opteron processor provides increased performance, scalability, and power efficiency for running today's critical business applications with SUSE Linux Enterprise Server. Plus, with the flexibility to migrate to 64-bit computing, this industry-leading processor enables a dramatic leap forward in compatibility, performance, investment protection, and reduced total cost of ownership (TCO).

WORLD'S LARGEST CHIPSET PROVIDER SLASHES PRODUCTION TIME WITH AMD AND NOVELL

QUALCOMM CDMA Technologies (QCT), the largest provider of 3G chipset and software technology in the world, is always looking for cutting-edge solutions to build complete chipsets within ever-shortening time-to-market windows. That's why the company turned to AMD Opteron™ processors with existing 32-bit versions of the applications running on a 64-bit Linux OS. The overall improvements offered by the AMD Opteron processor give QCT, the ability to run more simulations in the same period, as compared with its previous systems. According to Mike Broxterman, IT staff manager at QCT, "In head-to-head comparisons, we've seen 2X to 2.5X performance gains compared to competing systems. When you're talking about a single simulation taking as long as 17 hours, cutting that time in half is a very significant improvement."
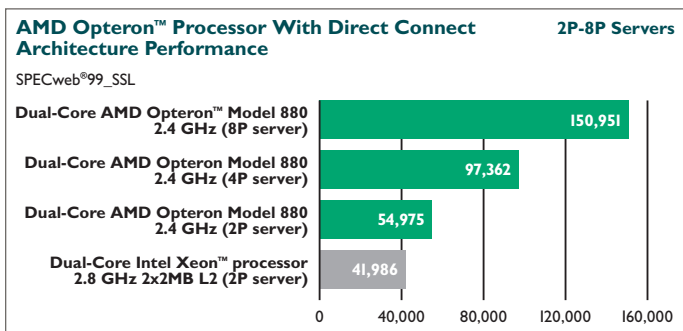
REALIZE THE BENEFITS OF AMD64 TECHNOLOGY

Some of the world's highest performing 2P and 4P servers are powered by AMD Opteron™ processors and Linux®, delivering an alternative to high-end and high-cost proprietary servers. This means you can use smaller, more power-efficient servers to consolidate your resources and increase the operational efficiency of your datacenter.

The AMD Opteron processor represents the landmark introduction of AMD64 with Direct Connect Architecture. Choosing AMD64 technology is the best way to place yourself in the next generation of computing, allowing you to:

» **Maximize productivity**—Direct Connect Architecture addresses and helps reduce the real challenges and bottlenecks of system architectures, providing optimized memory performance, balanced throughput, expandable I/O, and more linear symmetrical multiprocessing. And AMD's native dual-core technology connects two processor cores on to a single die for reduced latencies between processors because the core-to-core communication takes place at full core frequency

» **Improve efficiency**—64-bit capabilities break the 4GB barrier of 32-bit computing, enabling more data and user requests to be processed faster

» **Lower IT costs**—AMD PowerNow!™ technology can help reduce power consumption by as much as 75 percent at idle without compromising performance or system capabilities

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AMD Opteron™ Processor With Direct Connect Architecture Performance — 2P-8P Servers

SPECweb®99_SSL

Dual-Core AMD Opteron™ Model 880 2.4 GHz (8P server)	150,951
Dual-Core AMD Opteron Model 880 2.4 GHz (4P server)	97,362
Dual-Core AMD Opteron Model 880 2.4 GHz (2P server)	54,975
Dual-Core Intel Xeon™ processor 2.8 GHz 2x2MB L2 (2P server)	41,986

0   40,000   80,000   120,000   160,000

SPEC and the benchmark name SPECjbb2005 are registered trademarks of the Standard Performance Evaluation Corporation. The results stated above reflect results under submission to SPEC as of March 4, 2006. For latest SPECjbb2005 results, visit http://www.spec.org/jbb2005

CHOOSE A HIGH-PERFORMANCE LINUX PLATFORM

SUSE Linux Enterprise Server empowers businesses to leverage Linux and open source by delivering a scalable, high-performance platform for secure enterprise computing. It offers comprehensive functionality to meet user demands:

» Combines the best of Linux server software with configuration tools and documentation on a single server operating system

» Keeps businesses running 24x7 with the first scalable, high-performance, enterprise-ready platform built on the new Linux 2.6 kernel

» Dramatically lowers management costs with a Linux solution that is easy to deploy, configure, and maintain across the enterprise

» Speeds application tuning with advanced I/O schedulers

» Assists with increased application security through Novell's recently open-sourced AppArmor application security software—a new feature added with the release of SUSE Linux Enterprise Server 9 Service Pack 3

And since SUSE Linux Enterprise Server is backed by Novell, it gives you a reliable release cycle and a complete enterprise software ecosystem for Linux, including technical support, training, consulting, indemnification, and an extended partner network. The Novell commitment to open source, combined with expertise in Linux integration, helps businesses of all sizes deploy Linux quickly and confidently.

EVEN BETTER TOGETHER

Join the millions of computer users worldwide who have made SUSE Linux Enterprise Server and AMD64 their choice for secure enterprise computing. Gain a stabilized and integrated Linux operating system, comprehensive desktop, plus dozens of essential integrated tools that showcase the latest that open source has to offer.

"In head-to-head comparisons, we've seen 2X to 2.5X performance gains compared to competing systems. When you're talking about a single simulation taking as long as 17 hours, cutting that time in half is a very significant improvement."

—Mike Broxterman, IT staff manager at Qualcomm CDMA Technologies, AMD and Novell customer

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FOR MORE INFORMATION, VISIT www.amd.com/novell

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